Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days
PO039318	MEC002- VU	1	1	Net 30	Z.	M7075T6S0.375 X 5.000 : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft			12	4/4/2018	12		\$056423	Stock	3/29/2018	\$ 18.10 / ft	0
		2				7075-T6S Sheet 6"" Thick Plate X 0.25" Wide: MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft					12		\$056424	Stock	3/29/2018	\$ 20.75 / ft	0
		4			M7075T6S1.000X7.000			-			12		\$056425	Stock	3/29/2018	\$ 30.45 / ft	0
		5			C T M S C C C 2	7075-T6 Sheet 1.25" X 7.000" Order Pre Cut fo 50.00": MATERIAL: 1075-T6/T62 LUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 150/12 OR AMS 0045 OR ASTM 1209 receive ft			33		33		5056426	Stock	3/29/2018	\$ 44.65 / ft	0
								Total:	69		69				-		-

Plex 3/29/2018 9:16 AM Dart Dubois Pascal



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO039318

Tel (613) 632-5200

MEC002-VU Supplier:

Metaux Castle

P.O. Box 4090 Stn A

Toronto ON

M5W OE9 Canada

PO No:

PO039318

PO Date:

3/14/18

Due Date:

4/4/18

Purchase Order Revision:

Revision Date:

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.cqqqAR 1 4 2018

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments:

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (USD)	Extended Price
1	M7075T6S0.375X5.000		M7075T6S0.375 X 5.000 : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	4/4/18	12 ft	12	12 ft		8 AS
2	M7075T6S6.000X0.250		7075-T6S Sheet 6" Thick Plate X 0.25" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	4/4/18	12 ft	12	12 ft		\$249.00 DAS
3	M7075T6S1.750X4.500		M7075T6 Sheet 1.750 Thick X 4.500 Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS-4045 OR ASTM B209 receive ft	Firmed	4/4/18	12 ft	0 ft	12 ft	\$48.90/ft	\$586.80

Plex 3/14/18 1:32 PM dart.lavoie.chantal

				Items						
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
4	M7075T6S1.000X7.000		7075-T6 Sheet 1" Thick Plate X 7" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft		4/4/18	12 ft		12 ft		
5	M7075T6S1.250X7.000		7075-T6 Sheet 1.25" X 7.000" Order Pre Cut To 50.00" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	4/4/18	33.333 ft	o€ 33		MAR 2 8	\$1,488.32 } DAS 11 1-8 9
ine Item Note	8 pcs cut at 50" = 33.333	3 ft					I	I		
6	M7075T6S.160		7075-T6 Sheet .160 : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS-QQ-A-	Firmed	4/4/18	48 sf	0 sf	48 sf	\$13.729166/sf	\$659.00
									Grand Total:	

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/14/18 1:32 PM dart.lavoie.chantal

24041556



PACKING SLIP/

A. M. Castle & Co

CERTIFICATE OF CONFORMANCE

Page 1 of 1

Chin Brom	0.14 1-		Shipment No:3552225
A M CASTI E & CO	Sold To:	Ship To:	Deliver To:
2150 ARGENTIA ROAD MISSISSALICA ON LEA	1270 ABERDEEN	DART AEROSPACE LTD 1270 ABERDEEN	DART AEROSPACE LTD 1270 ABERDEEN
MISSISSAUGA, ON L5N 2K7 CAN	HAWKESBURY, ON K6A 1K7 CA	HAWKESBURY, ON K6A 1K7 CAN	HAWKESBURY, ON K6A 1K7
CAN	1		CA
Date Shipped F.O.B.	Freight Terms	Carrier	BOL No
AT-MAK-18 ORIGIN	Prepaid	MANITOULIN	3552225-2
Shipment Details		Final Destination Branch - TOR	OR .
Order No Line No	Item No	Description	
5077183 1	750067.MO	0.3750.PL.7075.T651.ALUMINUM:48_5000.144.5000	UM:48,5000.144.5000
		IN) - ALLIMINIM PLATE SAN	CUT-2SIDED TO 5 IN (+ .1250/0000 IN) X 144.5 IN (+ .1250/0000 IN) = AI I I I I I I I I I I I I I I I I I
Purchase Order No	Part Number	Ordered Oty	
39318		1.00 PCS	100000
Details ALL PAF	ALL PAPERWORK MUST FOLLOW ORDER / CLISTOMER MILET BECEIVE	DER / CLISTOMER MILET DECE	1.00
	ALL MATERIAL MUST HAVE DESITIEVIALD MADVINGS TV. HEAT HO	NO MADRINIOS EXTIEVE INC	TALL TIME OF DECIVERY

We hereby certify the material covered by this certification conforms in accordance with the above specifical test roports are on the subject to exhibit above. All claims for defective material are waived upyes finalle in Reviewed by Authorized Castle Metals Representative thas been found to meet the applicable requirements for the inaterial, including any specifications by property A.M. Castle & Co. within 60 days of the shiernent. Material cut to the correct size, or material cut of the Date: Name: MAR-2-7-2018 tomer cannot be returned

121704787 Delivery No.

Mill/Source

END USE: COMMERCIAL AIRCRAFT PARTS

Heat Number

Mech Id

PCS

Width (IN)

Length (IN)

Shipped Qty(LBS)

28.3863

ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavole@dartsero.com END USER: DART AEROSPACE



PACKING SLIP/ CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 1 of 1

22.8550				12 4 5 5 2 4 B 4		71001304
N) Shipped Qty(LBS)	Length (IN)	Width (IN)	Mech Id PCS	Heat Number M	Mill/Source +	Delivery No.
			RTS	END USE: COMMERCIAL AIRCRAFT PARTS	END USE: CO	
			.com	Email P/s and certs to: clavoie@dartaero.com	Email P/s and	
TIME OF DELIVERY	\neg	AT #'S	NG MARKINGS EX:HE	ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S	ALL MATERIA	Details
CS			1.00 PCS		2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	39318
e Qtv	Invoice Otv		Ordered Qty	Part Number		Purchase Order No
CUT 2SIDED TO 6 IN (+.1250/- 0000 IN) X 144.5 IN (+.1250/- 0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS. Oc. 4.250/12	000 IN) X 1	(+.1250/- 0	CUT 2SIDED TO 6 IN (+.1250/-			
4 5000	18 5000 144	ALUMINUM.	0.2500.PL.7075.T651.ALUMINUM.48.5000.144.5000	750023.MO	2	5077183
			Description	Item No	Line No	Order No
		inch - TOR	Final Destination Branch -		ails	Shipment Details
225-2	3552225-2		MANITOULIN	riepaio	ONGIN	Et With HA
No	BOL No		Carrier	Freight Terms	F.O.B.	Date Shipped
	A 1K7	CA CA	K6A 1K7 CAN		CA	CAN
1270 ABERDEEN HAWKESBURY, ON	1270 ABERDEEN HAWKESBURY, ON		1270 ABERDEEN HAWKESBURY ON	1270 ABERDEEN HAWKESBURY, ON K6A 1K7		2150 ARGENTIA ROAD MISSISSAUGA. ON L5N
70,00	Deliver To:		Ship To:	DART AEROSPACE LTD		A. M. CASTLE & CO
Shipment No: 3552225				7		Ship Erom:

for credit Reviewed by Authorized Castle Metals Representative:

We hereby certify the material covered by this certification conforms in accordance with the above specifications and the upon found to meet the applicable requirements for the material, including any specifications forming a particular on the subject to examination. All claims for defective material are warved unless in the average of the applicable A Co within 60 days of the subprient. Added the correct size, or material are warved unless in the average of the applicable applicable requirements for the correct size.

Date:

Name:

MAR-2-7

OR



PACKING SLIPF CERTIFICATE OF CONFORMANCE

Shipment No:3552225

Page 1 of 1

27-MAR-18 CAN 2K7 Date Shipped MISSISSAUGA, ON L5N 2150 ARGENTIA ROAD A. M. CASTLE & CO. Ship From: ORIGIN F.O.B. HAWKESBURY, ON K6A 1K7 1270 ABERDEEN DART AEROSPACE LTD Sold To: Prepaid Freight Terms HAWKESBURY, ON K6A 1K7 CAN Ship To: 1270 ABERDEEN DART AEROSPACE LTD MANITOULIN Carrier **K6A 1K7** HAWKESBURY, ON 1270 ABERDEEN DART AEROSPACE LTD Deliver To: 3552225-2 BOL No

		Lebara	101	MANITOOLIN		3552225-2	
Shipment Details	ails		Final D	Final Destination Branch - TOR	h - TOR		
Order No	Line No	Item No	Description	ption			
5077183	3	752188.MO	1.0000	1.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000	UMINUM.USI.	48.5000.144.5	000
			CUT-29	CUT 2SIDED TO 7 IN (+ .1250/0000 IN) X 144.5 IN (+ .1250/0000	.1250/0000	IN) X 144.5 IN	(+ .1250/0000
			N - A	ALUMINUM PLATI	E SAW SPECH	FICATIONS: A	IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
Purchase Order No		Part Number	Ordered Qty	ed Oty		Invoice Qtv	
39318			1.00 PCS	CS		1.00 PCS	
Details	ALL PAPERV	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE	OW ORDER / CU	JSTOMER MUST	EIVE	AT TIME OF DELIVERY	VERY
	ALL MATERI	ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S	ENTIFYING MAR	KINGS EX:HEAT			
	Email P/s and	Email P/s and certs to: clavoie@dartaero.com	dartaero.com				
	END USER:	END USER: DART AEROSPACE	m				
	END USE: C	END USE: COMMERCIAL AIRCRAFT PARTS	RAFT PARTS				
Delivery No.	Mill/Source	Heat Number	Mech Id	PCS	Width (IN) Le	Length (IN) St	Shinned Oty/I RS)
121704787					 i-	10	105.3288
	/						

We hereby certify the matexal covered by this certification conforms in accordance with the lest reports are on file subject to examination. All claims for defective material are waived up

s been found to meet the applicable requirements for use material, including any specifications forming a part of the description.

Caudio & Co. valum 60 days of the sthament. Haberial cut to the correct size, or material cut by the Caudio armost be returned.

Date:

Name:

MAR 27 2018

FOR

Reviewed by Authorized Castle Metals Representative



PACKING SLIP/ CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 1 of 1

V.0°	Name:	Date:	N. JA.	0		
The final control of the description of the description of the first of the description of the description of the first of the description	the shipment Materials	fand has been found to need the applicable requirements for the graph to A.M. Clastie & Co. within 60 days of the shipment. Maren and hope	e smecile	All claims for defective material are waived	amenation All claims to	is a copy comp you make in common by one centration contains in accordance with the bit is a copy of the student of the student of the student of the student of the copy of the student of the stu
BETALS		,	5			We bornly could the material could
				1		
	_			111194089341111		
362.2664		00	Jaj			121001332
N) Length (IN) Shipped Qty(LBS)	Width (IN)	Mech Id PCS	/ N	Heat Number	Mill/Source	9
		RTS	AIRCRAFT PA	END USE: COMMERCIAL AIRCRAFT PARTS	END USE	-
		.com	′oie@dartaero PACE	EMD USER: DART AEROSPACE	END USEF	
	EX:HEAT #'S	NG MARKINGS EX	/E IDENTIFYI	ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS	ALL MAIL	
	MUST RECEN	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE A	OLLOW ORL	RWORK MUST	ALL PAPE	Details
_		8.00 PCS				2010
Invoice Qty		Ordered Qty		Part Number		Purchase Order No
AMS-OQ-A-250/12	UNUM PLATE	AMS-QQ-A-250/12	4			
1.2500.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT RECTANGLE TO 7 IN (+ .1250/0000 IN) X 50 IN (+ .1250/-	651.ALUMINU	CUT RECTANGLE	ry of	/52114.MO	ŧ	3077 100
		Description	<	Item No	Line No	5077103
						Orda No
R	Branch - TOR	Final Destination				Shipment Details
3552225-2		MANITOULIN		Prepaid	ORIGIN	ZI-MAK-18
BOL No		Carrier	Terms	Freight Terms	F.O.B.	Date Shipped
						CAZ
HAWKESBURY, ON X6A 1K7		K6A 1K7 CAN	ON NOA IN	CA CA		2K7
1270 ABERDEEN) 	1270 ABERDEEN		1270 ABERDEEN	the control of the co	2150 ARGENTIA ROAD
Deliver To:		Ship To:	CE I TO	DART AFROSPACE		A. M. CASTLE & CO
Shipment No:3552225						Chi



Materials Testing Laboratory

Constellium Rolled Products Ravenswood, LLC

A M CASTLE & CO.

14001 ORANGE AVE.
PARAMOUNT CA
90723
US

S O L D

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

A M CASTLE

110606831

4075

INCLUSION

228501

48.50000 in

1,232 mm

Serial: 20180104-0110606831

Pg 1of3

CUSTOMER PURCHASE ORDER NO. & ITEM 448875

ALLOY CLAD TEMP

TEMPER SAUGE 1.25000 in 31.75 mm WIDTH | LENGTH

Constellium ORDER NO.

LENGTH 144.50000 in 3,670 mm

ITEM ORDERED SPEC PLATE, SAWED MILL FRISH

CUSTOMER SPECIFICATION AMS 4045K

PART NUMBER

B/L NUMBER 92452 DATE SHIPPED 01/04/2018

WT. SHIPPED 5340.000 LB NO. OF PIECES

GOVT. CONTRACT NO.

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC 859 Century Road

P.O. BOX 68 RAVENSWOOD, WV 26164 USA

Stove Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125"DEADZONE Class A AMS QQ-A-250/12A

AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE ASTM B209-14

BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE



Load Details

	Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
	1001681411	890.000	403.697	9408934	01		
	1001681411	890.000	403.697	9408934	02		
	1001681411	890.000	403.697	9408934	03		
	1001681412	890.000	403.697	9408935	01		
0	1001681412	890.000	403.697	9408935	02		
	1001581412	890.000	403.697	9408935	03		

Lot: 9408934

Tensile - Room Temperature (US)

		Ultimate	(KSI)	Yield (K	(ISI)	Elongati		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	79.5	79.9	70.1	70.3	12.5	13.0	

P-860-155D REVISED: 10 2014

Constellium Rolled Products Ravenswood, LLC

- timery **Constellium** Materials Testing Laboratory A M CASTLE & CO. 5 5 0 H 14001 ORANGE AVE. PARAMOUNT CA 0 P 90723 US 0 0 A M CASTLE 110606831 4075 INCLUSION CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 228501 ALLOY CLAD TEMPER GAUGE WIDTH LENGTH 7075 T651 1.25000 in 48.50000 in 144.50000 in 31.75 mm 1,232 mm 3,670 mm ITEM ORDERED SPEC PLATE, SAWED MILL FINISH CUSTOMER SPECIFICATION AMS 4045K PART NUMBER B/L NUMBER DATE SHIPPED 752114 92452 01/04/2018 WT. SHIPPED NO. OF PIECES GOVT. CONTRACT NO. 5340.000 LB 000006 Tensile - Room Temperature (SI)

A M CASTLE

Serial: 20180104-0110606831

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

Pg 2oi3

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road

P.O. BOX 68 RAVENSWOOD, WV 26164 USA

Steve Good - Laboratory Manager

Direction		Ultimate	(N/MM2)	Yield (N	V/MM2)	Elongati	on (%)	Report
	Tests	Min	Max	Min	Max	Min	Max	
LT	02	548	551	483	485	12.5	13.0	

Chemistry (Actual)

FE CR CU MG MN ZN TI ZR Core 0.07 0.15 1.40 2,59 0.22 0.04 5.43 0.04 0.00

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

Lot: 9408935

Tensile - Room Temperature (US)

		Ultimate	(KSI)	Yield (K	(SI)	Elongation	1 (%)	Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	80.7	80.7	71.1	71.4	12.5	13.0	

P-860-1550 REVISED: 10 2014



Trumury Moterials Testing Laboratory

Constellium Rolled Products Ravenswood, LLC

A M CASTLE & CO. S A M CASTLE S 0 H 14001 ORANGE AVE. 1420 KENSINGTON ROAD, SUITE 220 L PARAMOUNT CA OAK BROOK IL P D 90723 60523 US 0 0 A M CASTLE 110606831 4075 INCLUSION Serial: 20180104-0110606831 Pg 3of3 CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. CERTIFICATION 448875 228501 "Constellium Rallad Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the ALLOY CLAD TEMPER GAUGE WIDTH LENGTH requirements of the applicable specifications as 48.50000 in 7075 1.25000 in 144.50000 in T651 indicated herain. Any warranty is limited to that 31.75 mm 1,232 mm 3,670 mm shown on Constellium Rolled Products' standard ITEM ORDERED General Torms and Conditions of Sales. Test reports are on file, subject to examination." SPEC PLATE, SAWED Constellium Rollod Products Revenswood, LLC MILL FINISH 859 Century Road CUSTOMER SPECIFICATION P.O. BOX 68 AMS 4045K RAVENSWOOD, WV 26164 USA PART NUMBER B/L NUMBER DATE SHIPPED 752114 92452 01/04/2018 WT. SHIPPED NO. OF PIECES GOVT. CONTRACT NO. 5340,000 LB 000006 Steve Good - Laboratory Manager Tensile - Room Temperature (SI) Yield (N/MM2) Elongation (%) Ultimate (N/MM2) Report Direction Tests Min iviax Min Max Min Max LT 02 556 556 490 492 12.5 13.0 Chemistry (Actual) FE CU MN MG CR ZN IT ZR Core 0.07 0.15 1.40 0.04 2.59 0.22 5.43 0.00 0.04 OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER All material contained in this lot was cast and manufactured in the USA QUALITY TEXTS: AMC CA-15403A R 7 THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

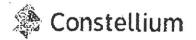
CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399 WHEN TENSILE TEST REQUIRED, TESTED PER ASTM EB; B557

DUNS Number: 090570149; CAGE Code: 1YWL9

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product. "END OF CERTIFICATION"

P-860-155D REVISED: 10 2014





CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

S H 1 2

T

C

A M CASTLE & COMPANY

4175 ROYAL DRIVE KENNESAW GA 30144 US

S 0 L D 0

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

AMCAS	TLE	1105508	666 4075		INCL	USION SE	erial:20170703-0110550666 Pg 1of	3
CUSTON 426116	MER PUR	CHASE ORI	DER NO. & IT	EM	Const. 209343	ellium ORDER NO	CERTIFICATION "Constellium Rolled Products, heraby cer rectal shipped under this order has	
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.00000 in 25.40 mm	WIDT: 48.500 1,232	000 in	LENGTH 144,50000 in 3,670 mm	inspected and found in conformance was requirements of the applicable specifical indicated herein. Any warranty is limited shown on Constellium Rolled Products'	ations as
MILL FIN	ATE, SAV ISH IER SPEC	VED IFICATION					General Terms and Conditions of Sale reports are on file, subject to examin Constellium Rolled Products Ravenswo 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 US.	nation." ood. LLC
PART NU 752188	IMBER		B/L NUI 83324	MBER	1	E SHIPPED 0/2017	Steve End	
WT. SHIP 4320.000			OF PIECES	GOVT.	CONTR	ACT NO.	Steve Good - Laboratory Mai	nagor

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125"DEADZONE Class A

AMS QQ-A-250/12A AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE

ASTD-2754A 2012 TYPET CLASS A 100% SONIC MINUS DEADZONE ASTM B209-14
BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001556284	720.000	326.586	9392367	01		
1001556284	720.000	326.586	9392367	02		
1001556284	720.000	326.586	9392367	03		
1001556285	720.000	326.585	9392368	01		
1001556285	720.000	326.586	9392368	02		
1001556285	720.000	326.586	9392368	03		

Lot: 9392367

Tensile - Room Temperature (US)

		Ultimate	(KSI)	Yield (K	(SI)	Elongation	(%)	Report
Direction	Tests	Min	Max	Min	Мах	Min	Max	
LT	02	82.6	82.9	73.7	73.9	12.5	13.0	





CERTIFIED TEST REPORT Constellium Rolled Products

Ravenswood, LLC

S н P

0

A M CASTLE & COMPANY

4175 ROYAL DRIVE KENNESAW GA 30144

S L D C A M CASTLE

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

A M CASTLE

110550666

4075

INCLUSION

Serial: 20170703-0110550666

Pg 2013

CUSTOMER PURCHASE ORDER NO. & ITEM 426116

ALLOY

7075

CLAD

TEMPER GAUGE T651 1.00000 in 25.40 mm

WIDTH 48.50000 in

1,232 mm

209343

LENGTH 144.50000 in 3,670 mm

Constellium ORDER NO.

ITEM ORDERED

SPEC PLATE, SAWED MILL FINISH

CUSTOMER SPECIFICATION

PART NUMBER 752188

AMS 4045K

8/L NUMBER 83324

DATE SHIPPED

07/03/2017

000006

CERTIFICATION

"Constellium Rolled Products, heroby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Tost roports are on file, subject to examination." Constallium Rolled Products Ravenswood, LLC 859 Century Road

P.O. BOX 68 RAVENSWOOD, WV 26164 USA

WT. SHIPPED 4320,000 LB

NO. OF PIECES GOVT, CONTRACT NO.

Stave Good - Laboratory Manager

Tensile - Room Temperature (SI)

		Ultimate	(N/MM2)	Yield (N	I/MM2)	Elongation	(%)	Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	570	572	508	510	12.5	13.0	

Chemistry (Actual)

Core

SI FE 0.05 0.12 1.48 0.03

CU MN

MG CR 2.62 0.22 ZN 5.56

ZR 0.00

TI

0.03

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

[All material contained in this lot was cast and manufactured in the USA

Lot: 9392368

Tensile - Room Temperature (US)

		Ultimate	(KSI)	Yield (K	(£3.)	Elongation	(%)	Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	81.9	83.1	72.1	73.6	13.0	14.5	

P-860-155D REVISED: 10 2014





CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

A M CASTLE & COMPANY Н 4175 ROYAL DRIVE KENNESAW GA 30144

S 0 L

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523

Т	US									T	08	E .			
0	071.5		105506		4075		(1)	CLUSIC	N.		Social: 20	170703-01	10550666	Pg 3of3	
AMCA	SILE	1	105506	900	4075		114	CLUSIC	J14		erias.20	170703-01	1000000	, g 5010	
CUSTO 426116		RCHAS	SE ORI	DER N	IO. & ITEN	٨		nstelliu 343	m QR	DER N	"Cor	metal ships	ood under th	ATION s, hereby certifi ils order has be anformance with	en
ALLOY 7075	CLAD	TE 16	MPER 51	1.000	GE 000 in) mm	WIDT 48.500 1,232	000 ii	n 1	ENGT 44.50 3.670 r	000 in	rec indi sho	pirements of cated herein wn on Con	of the applic n. Any warr stellium Roll	able specification anty is limited to a Products' state of the products of the product of the produc	ons as to that andard
	RDERED LATE, S/ NISH										r	ports are d instellium R	on file, subjection of the subject o		on."
CUSTO AMS 40	MER SPE 145K	CIFIC	ATION									RAVEN	P.O. BOX SWOOD, W	(68 V 26164 USA	
PART N 752188	IUMBER				B/L NUM8 83324	BER		ATE SH 7/03/20		D		12	in Gr	1	
WT. SH 4320.00		-/). OF 0006	PIECES	GOVT.	CON	TRACT	r no.						
-520.00	70 LD			0000								Ste	ve Good - L	aboratory Mana	ger
Tensile	- Room	Tempe		š. 350	2 <u></u>		/:alal	/N1/2 4 N 8	101		Elongati	วก (%)	Repor	4	
-					e (N/MM2	2		MN/M)					Keboi		_
_	rection	Tests		lin	Max		Min		Max		Min	Max			_
LT		02	5	65	573		197	-	507		13.0	14.5			
Chemie	try (Actu	al)													
Chemis	ity (Actu	SI	FE	CU	MN	MG (CR	ZN	TI		ZR				
Соге		0.05	0.12	1.48	0.500(5)).22	5.56	. 84		0.00				

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

QUALITY TEXTS: AMC CA-15403 R 8

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY DES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399 WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8: 8557 DUNS Number: 090570149; CAGE Code: 1YWL9

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product. "END OF CERTIFICATION"

P-860-1550 REVISED: 10 2014

SHIP TO:

A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402 PARAMOUNT, CA 90723

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

AISER ALUMINUM

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4493592

CUSTOMER PO NUME 448135-1	ER: WO	RK PACKAGE:	750023	./		PRUN/LOAD:	GOV'T CO!	NTRACT NUMBER	₹:
KAISER ORDER NO:		SHIF DATE:	ALLOY:	CLAD:	TEMPER	PRODUCTOR	SCRIPTION	الأ	
1248439-1		13-JAN-201	8 7075	BARE	7651	Sawed Pla	te 🗡		
WEIGHT SHIPPED:	QUANTITY:	TRUC	K B/L #:	GAUGE:		DIAMETER-WID		ENGTH:	
3231 LB	18 PCS E	ST. 207	1285	0.2500	N (6 3500 MM)	48.500 IN (123	1,9 MM)	144.500 IN	(3670/3 MW)

MHU 2188858: LOT 24552484: 18 pieces;

Certified Specifications

AMS 4045/Revu CMMP 025/RevV AMS-QQ-A-250/12/RevA

ASTM B 209/Rev14

Test Code: 1542

Lot: 245524B4

Cast 571

Drop 12

Test Results

Ingot 2

Melted in USA

(ASTM E8/6557)

(EN 2002-1)

Tensile:

Temper

SI

SI

Dir / # Tests LT / 2 (Min:Max) Ultimate KSI (MPA) 86.1:86.1

Yield KSI (MPA) 76.6:76.7

Elongation %

(594:594)

(528:529)

11.7:12.6

(ASTM E1251)

Chemistry:

FE

MN

CR

CR

1.4

CU

2.6

MG

ZN

ZR

OTHER

Actual(wt%) 0.08

0.17

FE

CU 0.04

MIN

MG 0.20

5.7

TI 0.03

0.01 0.01 TOT

0.03

ALLOY LIMITS

7075 MIN(wt%)

MAX(wt%)

0.00 0.00 0.40

1.2 0.50 2.0

0.00 2.1 0.30 2.9 0.28

0.18 5.1 6.1

ZN

0.00 0.00 0.20 0.05

TI

0.00 0.05 EACH 0.05 TOT

ZR OTHER MAX

0.15

Aluminum Remainder

ORDER_COMMENTS AMC CA-15409 R 3





CERTIFIED TEST REPORT

Serial Number 4493592

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFICATION

CENTIFICATION

Kalser Aluminum, Trentwood Works, is ISO 9001, A59100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specifications, reported congestion and reactives.

was material the United States of America on a qualifying country per OPARS 252.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for demand of the United States of America on a qualifying country per DFARS 252.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for demand of the United States of America on a cualifying country per DFARS 252.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for demand of the United States of America of Country per DFARS 252.225 for JFARS 252.225 for demand of the United States of America of Country per United States of America of Country per United States of America on a qualifying country per United States of America of Country per United States of America of Country per United States of Country per United States of America of Country per United States of Country per United States of Country per United States of America of Country per United States of Country per United States of Country per United States of America of Country per United States of Country per United States of Country per United States of America of Country per United States of Country per United States of Country per United States of America of Country per United States of

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Gemennay

Page 2 of 2

SHIP TO:

A M CASTLE & CO 3050 SOUTH HYDRAULIC WICHITA, KS 67216

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4488284

442851-1		RK PACKAGE	750067			TNUMBER: SHI			GOVTC	ONTRACT NUMBER:	
KAISER ORDER NO:		SHIP DATE:	ALI	LDY	CLAD:	TEMPET	50	PRODUCT D	ESCRIPTI	DN:	
1245835-1		3-DEC-20	17 70	75	BARE (T651	2	Sawed Pla	ate	and a	
WEIGHT SHIPPED:	QUANTITY:	TRU	CK B/L F		GAUGE:			LAMETER WIL	DTH:	LENGTH:	
3226 LB	12 PCS E	ST. 20	70527		0.3750	N 9.5250 M	- 1	48.500 IN (12	31.9 MM)	144.500 IN	(3670 3 MM)

MHU 2175452: LOT 24332686: 12 pieces;

Certified Specifications

AMS 4045/RevL CMMP 025/RevV AMS-QQ-A-250/12/RevA

ASTM B 209/Rev14

Test Code: 1512

Lot: 243326B6

Cast 540

Drop 97

Test Results Ingot 2

Melted in USA

(ASTM E8/8557)

(EN 2002-1)

Tensile:

Temper

Dir i # Tests

LT / 3 (Min:Max)

Ultimate KSI (MPA)

85.4:86.9

Yield KSI (MPA)

Elongation %

76.2:77.7 (525:536)

(589:599)

0.18

0.28

TI

TI

11.5:13.3

(ASTM E1251)

Chemistry:

SI FE 0.07

CU MN MG 2.6 ZN

Actual(vvt%)

0.14

FE

1.5 0.03

CR 0.19

5.8 0.02

ZN

0.01

ZR 0.01

OTHER TOT 0.03

ALLOY LIMITS

MG

7075 MIN(wt%) MAX(wt%)

0.00 0.00 0.40 0.50

\$I

CU 1.2 2.0

0.00 2.1 0.30 2.9

MN

5.1 6.1

0.00 0.00 0.20 0.05

0.00 0.05 EACH TOT

ZR OTHER MAX 0.05

0.15

Aluminum Remainder ORDER_COMMENTS

AMC CA-15409 R 3





CERTIFIED TEST REPORT

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

Serial Number 4488284

CERTIFICATION

CENTIFICATION

Calies: Aluminum, Transwood Works, is 150 9001, AS9100, and (S0 14001 certified, on the specifications indicated herein.

All test equipment and measuring devices are adobtrated and certified in accordance epolications indicated herein.

All test equipment and measuring devices are adobtrated and certified in accordance epolications indicated herein.

All test equipment and measuring devices are adobtrated and certified in accordance epolications. For material tolicinesses outside specification limits, mechanical procedures are as important to the united of the United States of America or a qualifying country per OFARS 252.672-1788, was monutabled in the United States of America or a qualifying country per OFARS 252.672-1788, was monutabled in the United States of America, and mosts the requirements of DFARS 252.225 for americal content.

This is not to the content of the Conten

MATERIAL RECEIPT INSPECTION FORM

1 %

MATERIAL: MODE	75 AR 2	76	51.250 x 7.000 PO / BATCH NO.: <u>039318 /505</u> 6
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	33 33 E	pro	THICKNESS ORDERED: 1.250 THICKNESS RECEIVED: 1.250 SHEET SIZE ORDERED: VA
DESCRIPTION	(Ch	CR neck (N)	COMMENTS
SURFACE DAMAGE	Y.	N	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Ya	N	4
CORRECT MATERIAL PER M-DRAWING	Y	Ν	AM5:4045
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N,)	
CORRECT REF # TO LINK CERT	\otimes	N	Heat # 940 8934
ORRECT MATERIAL IDENTFICATION	(XX	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N.	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	W	
CLIT CAMPLE DIECE	00	NAAT	TERIAL AND DREEORM A HARRINGS CHECK

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.				
F	RECORD RES	SULTS BELOV	V					
	HRC	HRB	DUR A	DUR D	WEBSTER			
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
HARDNESS / DUROMETER READING								

testers located in the Quality Office

QC 18 INSPECTION	*	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	9-89 MAR 2 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

8 PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

00-a-250/12 0R AMS-00-A-250/12 OR AMS 4045 OR AGTM B209 SPECIFICATION;

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE 8

SPECIFICATION:

 \otimes

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 4049 OR ASTM B209

B PART NUMBER:

M707516S TTT X W.WWW THK WIDTH

WHERE ".TTT" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

B PREFERRED SIZE:

TTT BY 4FT BY 10FT FOR SHEET

NTS REV. B SHEET 1 OF 1 17.05.05 10,11,08 RF DART AEROSPACE LTD
CP HAWKESBURY, ONTARIO, CANADA
ML DRAWING NO.
LL M7075T6S SHEET 10
WMM TITLE
SCA
DS-M 7075-TG SHEET/PLATE SPEC N DATE S RF ADD: REF TO "PLATE" "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) DESCRIPTION 17.05.05 NEW ISSUE DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE DESIGN В REV. **APPROVED**

MELEASED 2017 JUN 19 47 ECN 17-574

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MATERIAL RECEIPT INSPECTION FORM

d. 4.

QC 18 INSPECTION

MATERIAL: M70			651-00 2018	00X7.0	600	PO / BATCI	H NO.:039	318/505	6425
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED:	12	5		_	THIC	KNESS ORDE KNESS RECE		000 100	
QUANTITY REJECTED:	0	_		_		ET SIZE RECE		IA	
DESCRIPTION	(CI	CR neck (N)				COMMEN	TS		
SURFACE DAMAGE	Y	10.7)						
CORRECT FINISH	(Y)	N		****					
CORROSION	Y	N		1,000					
CORRECT GRAIN DIRECTION	(Y)	M							
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Am	5404	5				
CORRECT THICKNESS	(Y)	N							
PHOTO REQUIRED	Y	(N)		/					
CORRECT REF # TO LINK CERT	8	N	Itea	HP9	39:	2367			
CORRECT MATERIAL IDENTFICATION	2000	N		,					
CORRECT M# ON THE MATERIAL	(Y)	N							
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(1))						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N							
CUT SAMPLE PIECE		REC	ORD RE	SULTS B	ELOW		SS CHECK.		
EVOE OF MATERIAL			HRC	HRI	В	DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL									
SIZE OF TEST SAMPLE									
HARDNESS / DUROMETER READIN	1G								
	<u>te</u>	<u>sters</u>	located i	n the Qualit	ty Office	2			

ENGINEERING SIGNOFF (if required) INSPECTED BY: 11 SIGNED OFF BY:

9-8MAR 2 9 2018 DATE: DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

В PURCHASE MATERIAL; 7075-Т6/Т62/Т651 ALUMINUM SHEET OR PLATE

QQ-4-250/12 QR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 SPECIFICATION:

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE **B**

SPECIFICATION: 8

QQ.A.250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

B PART NUMBER:

WHERE ". TTT" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M707516S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M707516S.500X3.500

TIT BY 4FT BY 10FT FOR SHEET

REV. B SHEET 1 OF 17.05.05 10.11.08 DATE 7075-T6 SHEET/PLATE SPEC
COPYRIGHT © 2010 BY DART AEROSPACE LTD
INCLUDIOS OF SERVICE OCCUPANT OF THE SPECE COPY
INCLUDIOS OF SPECE COPY
INCLUDIOS OF THE SPECE COPY
INCLUDIOS DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M7075T6S
SHEE CP RF B ADD: REF TO "PLATE" T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) DESCRIPTION TITLE RF ML ML D99 NEW ISSUE MFG. APPR. APPROVED CHECKED DATE 1 DESIGN DRAWN REV. **APPROVED**

MELEASED

2017 JUN 19 C

17.05.05

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M707516S TTT X W.WWW THK WIDTH

(a)

B PREFERRED SIZE:

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: <u>/</u> DATE: _	<u>170757696.000</u> MAR 2 9 7018	PX 0250 PO / BATCH NO.: 0383/8/5056424
MATERIAL CERT REC'D: QUANTITY RECEIVED: _ QUANTITY INSPECTED: _ QUANTITY REJECTED: _	yes 12' 12'	THICKNESS ORDERED: 0.250 THICKNESS RECEIVED: 0.250 SHEET SIZE ORDERED: 1/A SHEET SIZE RECEIVED: 1/A

DESCRIPTION	(Ch	CR leck (N)	COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	W	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Ams-QQ-A-250/12
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(8)	N	Heat # 245524B4
CORRECT MATERIAL IDENTFICATION	(2)	N	
CORRECT M# ON THE MATERIAL	W	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	R	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	A	

CUT SAMPLE PIECE OF				SS CHECK.	
F	RECORD RES	SULTS BELOV	V		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	9-89 MAR 2 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

2

B PURCHASE MATERIAL: 7075-T6/T62/F651 ALUMINUM SHEET OR PLATE SPECIFICATION:

QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE (8)

SPECIFICATION:

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

B PART NUMBER:

M707516S TTT X W.WWW THK WIDTH

WHERE ".TTT" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

TIT BY 4FT BY 10FT FOR SHEET B PREFERRED SIZE:

NTS REV. B SCALE SHEET 1 OF 1 10.11.08 17.05.05 NV 1 TITLE SHEET/PLATE SPEC DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA COPYRIGHT © 2010 BY DART AEROSPACE LTD CP RF BY ADD: REF TO "PLATE" T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) DRAWING NO. M7075T6S 유임품 17.05.05 NEW ISSUE DESIGN DRAWN CHECKED MFG. APPR. APPROVED DE APPR. 8 DATE REV. APPROVED

THIS DOCUMENT IS PRIVATED FOR A

MELEASED

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B

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M70	254	650	2.375	X5.000	PO / BATCH	NO.: <u>039</u>	318/5056	
DATE: M	AR Z	9 20)18	-				
MATERIAL CERT REC'D:		THICKNESS ORDERED: 0.375						
QUANTITY RECEIVED:		THICKNESS RECEIVED: 0.375						
QUANTITY INSPECTED:		SHEET SIZE ORDERED: W//						
QUANTITY REJECTED:	1			- SHEI	ET SIZE RECEI	VED:	7	
	NO	CR						
DESCRIPTION	(Ch	eck		COMMENTS				
	Y/	N)						
SURFACE DAMAGE	Υ	(N)				*****		
CORRECT FINISH	(8)	N						
CORROSION	Y	(N)				an a		
CORRECT GRAIN DIRECTION	Y	N						
CORRECT MATERIAL PER M-DRAWING	Y	N	Ams	QQ-A	-250/12	_		
CORRECT THICKNESS	(Y)	N	, ,		ı			
PHOTO REQUIRED	Y	(N)		,				
CORRECT REF # TO LINK CERT	(4)	Ň	Heat	# 2433	2686			
CORRECT MATERIAL IDENTFICATION	9	N						
CORRECT M# ON THE MATERIAL	(A)	N						
DOES THIS MATERIAL REQUIRE		~						
ENGINEERING SIGN OFF	Υ	(1)						
DOES THIS REQUIRE AN								
EXTRUSION REPORT	Υ	(N)						
		$\overline{}$						
OUT OAMBLE BIEGO	- 0-		FED. 41. 4	ND DDEEGO				
CUT SAMPLE PIECE						SS CHECK.		
	- 1	_		SULTS BELOV		DUD 5	LWESSES	
TYPE OF MATERIAL		-	HRC	HRB	DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READII						L		
	<u>te</u>	sters	located in	the Quality Office	<u>:e</u>			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY:

DATE:

9-8MAR 2 9 2018

QC 18 INSPECTION

INSPECTED BY:

DATE:

SPECIFICATION CONTROL DRAWING

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OD A 260/12 OR AMS, QQ-A-250/12 OR AMS 4045 OR ASTM B209 SPECIFICATION:

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE (B)

SPECIFICATION:

B

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

B PART NUMBER:

M707516S TTT X W.WWW THK WIDTH

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WHERE ".TTT" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

(a)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

TTT BY 4FT BY 10FT FOR SHEET MELEASED

2017 JUN 19 47 ECN 17-574

REV. B SHEET 1 OF 17.05.05 10.11.08 DATE 7075-T6 SHEET/PLATE SPEC TO COPYRIGHT & 2010 BY DARTA REPOSPACE LTD COPYRIGHT & 2010 BY DARTA REPOSPACE LTD COPYRIGHT WE DESIGNED THE DARTA REPOSPACE LTD COPYRIGHT OF DARTA REPOSPACE LTD COPYRIGHT O DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
R
M707576S
SHEE CP RF ADD: REF TO "PLATE" T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) DESCRIPTION CP NML NWM 17.05.05 NEW ISSUE MFG. APPR. APPROVED CHECKED DE APPR. REV. DESIGN DRAWN œ 4 **APPROVED**

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